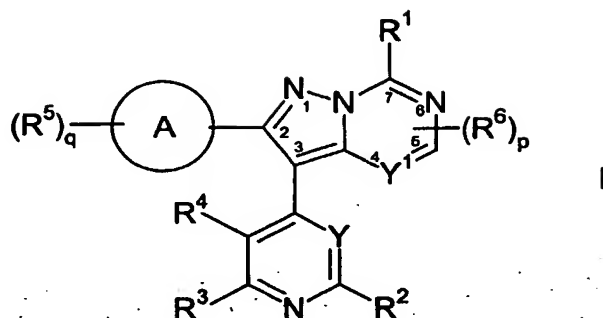


CLAIMS

1. A compound of formula (I):



wherein:

R^1 is selected from the group consisting of H, halo, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, Ay, Het, $-C(O)R^9$, $-C(O)Ay$, $-C(O)Het$, $-CO_2R^9$, $-C(O)NR^7R^8$, $-C(O)NR^7Ay$, $-C(S)NR^9R^{11}$, $-C(NH)NR^7R^8$, $-C(NH)NR^7Ay$, $-OR^7$, $-OAy$, $-OHet$, $-NR^7R^8$, $-NR^7Ay$, $-NHHet$, $-S(O)_nR^9$, $-S(O)_nAy$, $-S(O)_nHet$, $-S(O)_2NR^7R^8$, $-S(O)_2NR^7Ay$, $-R^{10}cycloalkyl$, $-R^{10}Ay$, $-R^{10}Het$, $-R^{10}OR^9$, $-R^{10}NR^7R^8$, $-R^{10}NR^7Ay$, $-R^{10}NHSO_2R^9$, $-R^{10}C(O)R^9$, $-R^{10}C(O)Ay$, $-R^{10}C(O)Het$, $-R^{10}CO_2R^9$, $-R^{10}OC(O)R^9$, $-R^{10}OC(O)Ay$, $-R^{10}OC(O)Het$, $-R^{10}C(O)NR^9R^{11}$, $-R^{10}C(O)NR^7Ay$, $-R^{10}C(O)NHR^{10}Het$, $-R^{10}C(S)NR^9R^{11}$, $-R^{10}C(NH)NR^9R^{11}$, $-R^{10}SO_2R^9$, $-R^{10}SO_2NR^9R^{11}$, $-R^{10}SO_2NHCOR^9$, $-R^{10}OS(O)_nR^9$, cyano, nitro and azido;

each R^7 and R^8 are the same or different and are independently selected from the group consisting of H, alkyl, cycloalkyl, alkenyl, cycloalkenyl, $-C(O)R^9$, $-CO_2R^9$, $-C(O)NR^9R^{11}$, $-C(S)NR^9R^{11}$, $-C(NH)NR^9R^{11}$, $-SO_2R^{10}$, $-SO_2NR^9R^{11}$, $-R^{10}cycloalkyl$, $-R^{10}Ay$, $-R^{10}Het$, $-R^{10}C(O)R^9$, $-R^{10}CO_2R^9$, $-R^{10}C(O)NR^9R^{11}$, $-R^{10}C(S)NR^9R^{11}$, $-R^{10}OR^9$, $-R^{10}NR^9R^{11}$, $-R^{10}NHCOR^9$, $-R^{10}NHC(NH)NR^9R^{11}$, $-R^{10}C(NH)NR^9R^{11}$, $-R^{10}NHSO_2R^9$, $-R^{10}SO_2NR^9R^{11}$, $-R^{10}SO_2R^{10}$ and $-R^{10}SO_2NHCOR^9$;

each R^9 and R^{11} are the same or different and are independently selected from the group consisting of H, alkyl, cycloalkyl, $-R^{10}cycloalkyl$, $-R^{10}OH$, $-R^{10}(OR^{10})_w$ where w is 1-10, and $-R^{10}NR^{10}R^{10}$;

each R^{10} is the same or different and is independently selected from the group consisting of alkyl, cycloalkyl, alkenyl, cycloalkenyl, and alkynyl;

n is 0, 1 or 2;

Ay is aryl;

Het is a 5- or 6-membered heterocyclic or heteroaryl group;

Y¹ is N or CH;

p is 0, 1 or 2 when Y¹ is CH,

p is 0 or 1 when Y¹ is N;

each R⁶ is the same or different and is independently selected from the group

consisting of H, halo, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, Ay, Het, -C(O)R⁹, -C(O)Ay, -C(O)Het, -CO₂R⁹, -C(O)NR⁷R⁸, -C(O)NR⁷Ay, -C(S)NR⁹R¹¹, -C(NH)NR⁷R⁸, -C(NH)NR⁷Ay, -OR⁷, -OAy, -OHet, -NR⁷R⁸, -NR⁷Ay, -NHHet, -S(O)_nR⁹, -S(O)_nAy, -S(O)_nHet, -S(O)₂NR⁷R⁸, -S(O)₂NR⁷Ay, -R¹⁰cycloalkyl, -R¹⁰Ay, -R¹⁰Het, -R¹⁰OR⁹, -R¹⁰NR⁷R⁸, -R¹⁰NR⁷Ay, -R¹⁰NHSO₂R⁹, -R¹⁰C(O)R⁹, -R¹⁰C(O)Ay, -R¹⁰C(O)Het, -R¹⁰CO₂R⁹, -R¹⁰OC(O)R⁹, -R¹⁰OC(O)Ay, -R¹⁰OC(O)Het, -R¹⁰C(O)NR⁹R¹¹, -R¹⁰C(O)NR⁷Ay, -R¹⁰C(O)NHR¹⁰Het, -R¹⁰C(S)NR⁹R¹¹, -R¹⁰C(NH)NR⁹R¹¹, -R¹⁰SO₂R⁹, -R¹⁰SO₂NR⁹R¹¹, -R¹⁰SO₂NHCOR⁹, -R¹⁰OS(O)_nR⁹, cyano, nitro and azido; or when p is 2, two adjacent R⁶ groups together with the carbon atoms to which they are bonded form a cycloalkyl or a 5- or 6-membered heterocyclic group containing 1 or 2 heteroatoms;

Y is N or CH;

R² is selected from the group consisting of halo, alkyl, cycloalkyl, alkenyl, cycloalkenyl, Ay, Het, -OR⁷, -OAy, -OHet, -NR⁷R⁸, -NR⁷Ay, -NHHet, -S(O)_nR⁹, -S(O)_nAy, -R¹⁰NR⁷R⁸ and -R¹⁰NR⁷Ay;

R³ and R⁴ are the same or different and are each independently selected from the group consisting of H, halo, alkyl, alkenyl, cycloalkyl, Ay, Het, -C(O)R⁷, -C(O)Ay, -CO₂R⁷, -CO₂Ay, -OR⁷, -OAy, -NR⁷R⁸, -NR⁷Ay, -NHHet, -SO₂NHR⁹, -R¹⁰OR⁷, -R¹⁰cycloalkyl, -R¹⁰OAy, -R¹⁰NR⁷R⁸ and -R¹⁰NR⁷Ay;

Ring A is selected from the group consisting of aryl, 5-10 membered heterocyclic group and a 5-10 membered heteroaryl group;

q is 0, 1, 2, 3, 4 or 5; and

each R⁵ is the same or different and is independently selected from the group consisting of halo, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, Ay, Het,

-C(O)R⁹, -C(O)Ay, -C(O)Het, -CO₂R⁹, -C(O)NR⁷R⁸, -C(O)NR⁷Ay, -C(S)NR⁹R¹¹,
 -C(NH)NR⁷R⁸, -C(NH)NR⁷Ay, -OR⁷, -OAY, -OHet, -NR⁷R⁸, -NR⁷Ay, -NHHet,
 -S(O)_nR⁹, -S(O)₂NR⁷R⁸, -S(O)₂NR⁷Ay, -R¹⁰cycloalkyl, -R¹⁰Het, -R¹⁰C(O)R⁹,
 -R¹⁰CO₂R⁹, -R¹⁰C(O)NR⁹R¹¹, -R¹⁰C(O)NR⁷Ay, -R¹⁰C(O)NHR¹⁰Het, -R¹⁰C(S)NR⁹R¹¹,
 -R¹⁰C(NH)NR⁹R¹¹, -R¹⁰OR⁹, -R¹⁰NR⁷R⁸, -R¹⁰NR⁷Ay, -R¹⁰SO₂R⁹, -R¹⁰SO₂NR⁹R¹¹,
 -R¹⁰SO₂NHCOR⁹, cyano, nitro and azido; or

a pharmaceutically acceptable salt, solvate or physiologically functional derivative thereof.

2. The compound according to claim 1 wherein R¹ is selected from the group consisting of halo, alkyl, cycloalkyl, Ay, Het, -OR⁷, -OAY, -NR⁷R⁸, -NR⁷Ay, -NHHet, -S(O)_nR⁹, -R¹⁰cycloalkyl, -R¹⁰OR⁹, -R¹⁰NR⁷R⁸ and -R¹⁰NR⁷Ay.

3. The compound according to claim 1 wherein R¹ is selected from the group consisting of alkyl, Het, -OR⁷, -NR⁷R⁸, -NR⁷Ay and -S(O)_nR⁹.

4. The compound according to any of claims 1-3 wherein Y¹ is CH.

5. The compound according to any of claims 1-3 wherein Y¹ is N.

6. The compound according to any of claims 1-5 wherein p is 0 or 1.

7. The compound according to any of claims 1-6 wherein each R⁶ is the same or different and is independently selected from the group consisting of halo, alkyl, Ay, Het, -C(O)Het, -CO₂R⁹, -C(O)NR⁷R⁸, -C(O)NR⁷Ay, -OR⁷, -OAY, -NR⁷R⁸, -NR⁷Ay, -NHHet, -S(O)_nR⁹, -S(O)_nAy, -S(O)_nHet, -R¹⁰OR⁹ and cyano.

8. The compound according to any of claims 1-6 wherein each R⁶ is the same or different and is independently selected from the group consisting of halo, alkyl, Het, -NR⁷R⁸, -NHHet and -S(O)_nR⁹.

9. The compound according to any of claims 1-8 wherein Y is CH.
10. The compound according to any of claims 1-8 wherein Y is N.
11. The compound according to any of claims 1-10 wherein R² is selected from the group consisting of Ay, Het, -OR⁷, -OAY, -OHet, -NR⁷R⁸, -NR⁷Ay, -NHHet, -S(O)_nR⁹, -S(O)_nAy, -R¹⁰NR⁷R⁸ and -R¹⁰NR⁷Ay.
12. The compound according to any of claims 1-10 wherein R² is selected from the group consisting of -NR⁷R⁸, -NR⁷Ay and -NHHet.
13. The compound according to any of claims 1-12 wherein R³ and R⁴ are the same or different and are each independently selected from the group consisting of H, halo, alkyl, Ay, -CO₂R⁷, -OR⁷, -NR⁷R⁸, -R¹⁰OR⁷ and -R¹⁰NR⁷R⁸.
14. The compound according to any of claims 1-12 wherein R³ and R⁴ are both H.
15. The compound according to any of claims 1-14 wherein Ring A is selected from the group consisting of aryl, a 5-6 membered heterocyclic or heteroaryl group and a 9-membered heterocyclic or heteroaryl group.
16. The compound according to any of claims 1-14 wherein Ring A is selected from the group consisting of phenyl, naphthyl, furan, pyridine, pyrimidine, thiazol, pyrazine, pyrrole, imidazole, oxazole, benzimidazole, quinoline, isoquinoline and quinoxaline.
17. The compound according to any of claims 1-14 wherein Ring A is selected from the group consisting of phenyl, furan, pyridine and pyrimidine.
18. The compound according to any of claims 1-14 wherein Ring A is phenyl.

19. The compound according to any of claims 1-18 wherein q is 0, 1 or 2.
20. The compound according to any of claims 1-19 wherein each R⁵ is the same or different and is independently selected from the group consisting of halo, alkyl, alkenyl, Ay, Het, -CO₂R⁹, -C(O)NR⁷R⁸, -C(O)NR⁷Ay, -OR⁷, -OAY, -NR⁷R⁸, -NR⁷Ay, -S(O)₂NR⁷R⁸, cyano, nitro and azido.
21. The compound according to any of claims 1-19, wherein each R⁵ is the same or different and is independently selected from the group consisting of halo, alkyl, -OR⁷, -NR⁷R⁸ and cyano.
22. A compound selected from the group consisting of:
N-Cyclopentyl-3-[2-(cyclopentylamino)pyrimidin-4-yl]-2-(4-fluorophenyl)pyrazolo[1,5-c]pyrimidin-7-amine;
N-Cyclopentyl-3-[2-(cyclopropylamino)pyrimidin-4-yl]-2-(4-fluorophenyl)pyrazolo[1,5-c]pyrimidin-7-amine;
4-[2-(3-Chlorophenyl)pyrazolo[1,5-c]pyrimidin-3-yl]-*N*-cyclopentylpyrimidin-2-amine;
4-[2-(3-Chlorophenyl)-7-(methylthio)pyrazolo[1,5-c]pyrimidin-3-yl]-*N*-cyclopentylpyrimidin-2-amine;
2-(3-Chlorophenyl)-*N*-cyclopentyl-3-[2-(cyclopentylamino)-4-pyrimidinyl]pyrazolo[1,5-c]pyrimidin-7-amine;
4-[2-(3-Chlorophenyl)-7-(4-morpholinyl)pyrazolo[1,5-c]pyrimidin-3-yl]-*N*-cyclopentyl-2-pyrimidinamine;
2-(3-Chlorophenyl)-3-[2-(cyclopentylamino)-4-pyrimidinyl]-*N*-(2-methoxyethyl)pyrazolo[1,5-c]pyrimidin-7-amine;
2-(3-Chlorophenyl)-3-[2-(cyclopentylamino)-4-pyrimidinyl]pyrazolo[1,5-c]pyrimidin-7-ol;
N-Cyclopentyl-8-(2-fluoro-4-pyridinyl)-2-(methylsulfanyl)-7-phenylpyrazolo[1,5-*a*][1,3,5]triazin-4-amine;

N,N'-Dicyclopentyl-8-[2-(cyclopentylamino)-4-pyridinyl]-7-phenylpyrazolo[1,5-*a*][1,3,5]triazine-2,4-diamine;

N-Cyclopentyl-8-[2-(cyclopentylamino)-4-pyrimidinyl]-7-phenylpyrazolo[1,5-*a*][1,3,5]triazin-4-amine;

3-[2-(Butylamino)pyrimidin-4-yl]-*N*-cyclopentyl-2-(4-fluorophenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

3-(2-Anilinopyrimidin-4-yl)-*N*-cyclopentyl-2-(4-fluorophenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

3-[2-(1,3-Benzothiazol-2-ylamino)pyrimidin-4-yl]-*N*-cyclopentyl-2-(4-fluorophenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-2-(4-fluorophenyl)-3-{2-[(4-methyl-1,3-thiazol-2-yl)amino]pyrimidin-4-yl}pyrazolo[1,5-*c*]pyrimidin-7-amine;

3-[2-(1*H*-Benzimidazol-2-ylamino)pyrimidin-4-yl]-*N*-cyclopentyl-2-(4-fluorophenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-3-{2-[(4-fluorobenzyl)amino]pyrimidin-4-yl}-2-(4-fluorophenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-2-(4-fluorophenyl)-3-{2-[(2-phenylethyl)amino]pyrimidin-4-yl}pyrazolo[1,5-*c*]pyrimidin-7-amine;

3-[2-(*tert*-Butylamino)pyrimidin-4-yl]-*N*-cyclopentyl-2-(4-fluorophenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-4-[2-(4-fluorophenyl)-7-(methylsulfanyl)pyrazolo[1,5-*c*]pyrimidin-3-yl]pyrimidin-2-amine;

N-Cyclopentyl-3-[2-(cyclopentylamino)pyrimidin-4-yl]-2-(4-methoxyphenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

4-{7-(Cyclopentylamino)-3-[2-(cyclopentylamino)pyrimidin-4-yl]pyrazolo[1,5-*c*]pyrimidin-2-yl}phenol;

3-[2-(Cyclopentylamino)pyrimidin-4-yl]-*N*-cyclopropyl-2-(4-methoxyphenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

2-(4-Butoxyphenyl)-*N*-cyclopentyl-3-[2-(cyclopentylamino)pyrimidin-4-yl]pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-3-[2-(cyclopentylamino)pyrimidin-4-yl]-2-(4-isobutoxyphenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-3-[2-(cyclopentylamino)pyrimidin-4-yl]-2-[4-(2-methoxyethoxy)phenyl]pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-3-[2-(cyclopentylamino)pyrimidin-4-yl]-2-(4-propoxyphenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-(*tert*-Butyl)-3-[2-(cyclopentylamino)pyrimidin-4-yl]-2-(4-fluorophenyl)pyrazolo[1,5-*c*]pyrimidin-7-amine;

N-Cyclopentyl-4-[2-(4-fluorophenyl)-7-pyrrolidin-1-ylpyrazolo[1,5-*c*]pyrimidin-3-yl]pyrimidin-2-amine; and

N-Cyclopentyl-4-[2-(4-fluorophenyl)-7-piperidin-1-ylpyrazolo[1,5-*c*]pyrimidin-3-yl]pyrimidin-2-amine, or

a pharmaceutically acceptable salt, solvate or physiologically functional derivative thereof.

23. A pharmaceutical composition comprising a compound according to any of claims 1-22.

24. The pharmaceutical composition according to claim 23 further comprising a pharmaceutically acceptable carrier or diluent.

25. The pharmaceutical composition according to any of claims 23-24 further comprising an antiviral agent selected from the group consisting of aciclovir and valaciclovir.

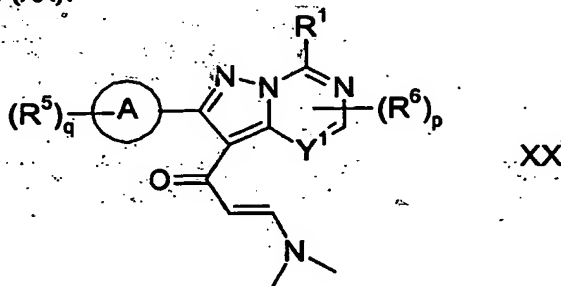
26. A method for the prophylaxis or treatment of a herpes viral infection in an animal, said method comprising administering to the animal a therapeutically effective amount of a compound according to any of claims 1-22.

27. The method according to claim 26 wherein said herpes viral infection is selected from the group consisting of herpes simplex virus 1, herpes simplex virus 2,

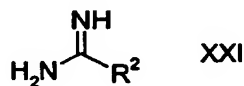
cytomegalovirus, Epstein Barr virus, varicella zoster virus, human herpes virus 6, human herpes virus 7 and human herpes virus 8.

28. A method for the prophylaxis or treatment of a condition or disease associated with a herpes viral infection in an animal, comprising administering to the animal a therapeutically effective amount of the compound of formula (I) according to any of claims 1-22.

29. A process for preparing a compound according to any of claims 1-22 wherein Y^1 is CH; Y is N; R^2 is selected from the group consisting of alkyl, cycloalkyl, alkenyl, cycloalkenyl, Ay, Het, $-OR^7$, $-OAY$, $-OHet$, $-NR^7R^8$, $-NR^7AY$, $-NHHet$, $-S(O)_nR^9$, $-S(O)_nAY$, $-R^{10}NR^7R^8$ and $-R^{10}NR^7AY$; and R^3 and R^4 are H, said process comprising reacting a compound of formula (XX):

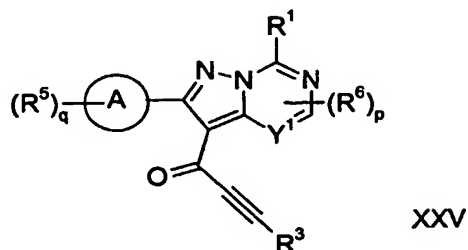


with a compound of formula (XXI):

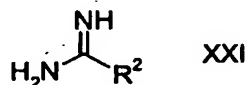


30. A process for preparing a compound according to any of claims 1-22 wherein Y is N; R^2 is selected from the group consisting of alkyl, cycloalkyl, alkenyl, cycloalkenyl, Ay, Het, $-OR^7$, $-OAY$, $-OHet$, $-NR^7R^8$, $-NR^7AY$, $-NHHet$, $-S(O)_nR^9$, $-S(O)_nAY$, $-R^{10}NR^7R^8$ and $-R^{10}NR^7AY$; R^3 is selected from the group consisting of H, alkyl, alkenyl, cycloalkyl, Ay, Het, $-C(O)R^7$, $C(O)AY$, $-CO_2R^7$, $-CO_2AY$, $-OR^7$, $-OAY$, $-NR^7R^8$ (where R^7 and R^8 are not H), $-NR^7AY$ (where R^7 is H), $-SO_2NHR^9$, $-R^{10}OR^7$, $-R^{10}cycloalkyl$, $-R^{10}OAY$,

$-R^{10}NR^7R^8$ and $-R^{10}NR^7Ay$; and R^4 is H said process comprising reacting a compound of formula (XXV):

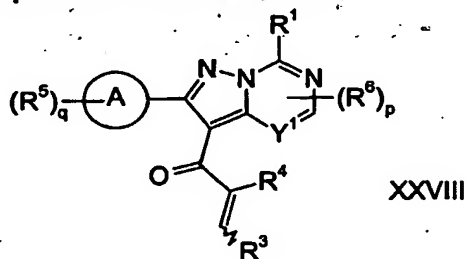


with a compound of formula (XXI):

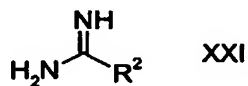


31. A process for preparing a compound according to any of claims 1-22 wherein Y is N and R^2 is selected from the group consisting of alkyl, cycloalkyl, alkenyl, cycloalkenyl, Ay, Het, $-OR^7$, $-OAY$, $-OHet$, $-NR^7R^8$, $-NR^7Ay$, $-NHhet$, $-S(O)_nR^9$, $-S(O)_nAy$, $-R^{10}NR^7R^8$ and $-R^{10}NR^7Ay$, said process comprising the steps of:

a) reacting a compound of formula (XXVIII):



with a compound of formula (XXI):

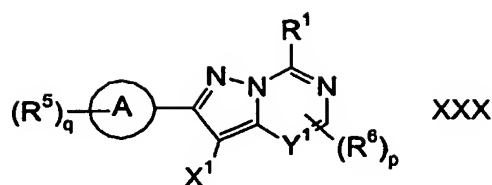


to prepare an intermediate compound; and

b) oxidizing the intermediate compound.

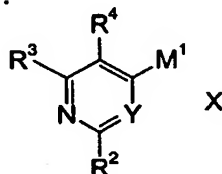
32. A process for preparing a compound according to any of claims 1-22 comprising reacting a compound of formula (XXX):

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wherein X^1 is chloro, bromo or iodo;

with a compound of formula (X):



wherein M^1 is $-B(OH)_2$, $-B(ORa)_2$, $-B(Ra)_2$, $-Sn(Ra)_3$, Zn-halide, ZnRa, or Mg-halide where Ra is alkyl or cycloalkyl and halide is halo.

33. The process according to any of claims 29-32 further comprising the step of converting the compound of formula (I) to a pharmaceutically acceptable salt, solvate or physiologically functional derivative thereof.

34. The process according to any of claims 29-33 further comprising the step of converting the compound of formula (I) or a pharmaceutically acceptable salt, solvate or physiologically functional derivative thereof to another compound of formula (I) or a pharmaceutically acceptable salt, solvate or physiologically functional derivative thereof.

35. A compound according to any of Claims 1-22 for use in therapy.

36. A compound according to any of Claims 1-22 for the prophylaxis or treatment of a herpes viral infection in an animal.

37. A compound according to any of claims 1-22 for the prophylaxis or treatment of a condition or disease associated with a herpes viral infection in an animal.

38. The use of a compound according to any of claims 1-22 for the preparation of a medicament for the prophylaxis or treatment of a herpes viral infection.

39. The use of a compound according to any of claims 1-22 for the preparation of a medicament for the prophylaxis or treatment of a condition or disease associated with a herpes viral infection.

40. A pharmaceutical composition comprising a compound according to any of claims 1-22 for use in the prophylaxis or treatment of a herpes viral infection in an animal.